

(19)

Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 1 139 639 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
18.12.2002 Bulletin 2002/51

(51) Int Cl.7: **H04M 1/22, H04M 1/247**

(43) Date of publication A2:
04.10.2001 Bulletin 2001/40

(21) Application number: **01302045.8**

(22) Date of filing: **06.03.2001**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR**
Designated Extension States:
AL LT LV MK RO SI

(72) Inventor: **Yoshida, Masao,**
c/o Pioneer Corp. Kawagoe Works
Kawagoe-shi, Saitama (JP)

(74) Representative: **Haley, Stephen**
Gill Jennings & Every,
Broadgate House,
7 Eldon Street
London EC2M 7LH (GB)

(30) Priority: **28.03.2000 JP 2000089210**

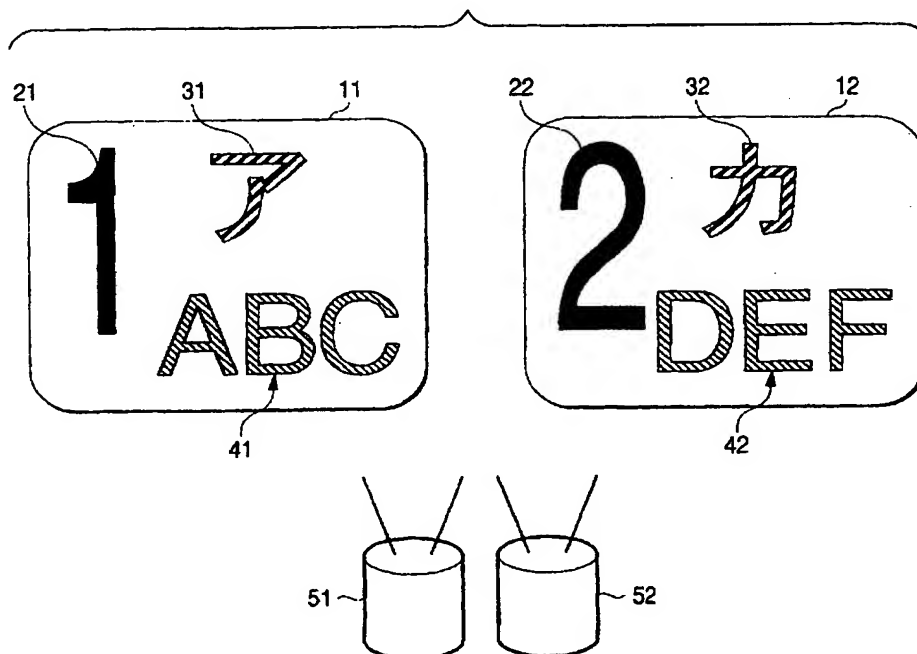
(71) Applicant: **Pioneer Corporation**
Meguro-ku, Tokyo (JP)

(54) Button for an electric device and method of controlling lighting of the button

(57) In a button for an electronic device, a red numeral pattern 21, a green kana pattern 31 and a black English character pattern 41 are printed on a key top 11 as plural kinds of patterns. By selectively causing a red

LED 51 and a green LED 52 that function as a light source of a backlight to emit a light, red, green and orange lighting colors of the backlight are obtained. According to the color of the pattern used according to a mode, the lighting color of the backlight is switched.

FIG. 1





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 01 30 2045

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	PATENT ABSTRACTS OF JAPAN vol. 015, no. 410 (P-1264), 18 October 1991 (1991-10-18) & JP 03 164922 A (CANON INC), 16 July 1991 (1991-07-16) * abstract; figures 1-4 *	1-6	H04M1/22 H04M1/247
X	EP 0 508 563 A (NOKIA MOBILE PHONES LTD) 14 October 1992 (1992-10-14)	1,2,4,5	
A	* column 1, line 13 - line 18 * * column 2, line 7 - line 32 * * column 2, line 52 - column 7, line 1; figures 1-7 *	3,6	
A	US 5 950 809 A (ANDRE JEAN-MARIE) 14 September 1999 (1999-09-14) * column 1, line 25 - column 3, line 36; figures 1-4 *	1-6	
A	GB 2 304 439 A (SAMSUNG ELECTRONICS CO LTD) 19 March 1997 (1997-03-19) * page 1 - page 5; figures 1-5 *	1-6	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
A	US 5 404 133 A (MORIIE ET AL) 4 April 1995 (1995-04-04) * column 2, line 40 - column 3, line 26; figures 1,2 *	1,4	H04M
A	DE 32 35 752 A (SIEMENS AG) 29 March 1984 (1984-03-29) * the whole document *	1,4	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 29 October 2002	Examiner Delangue, P
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 03/82 (P0/C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 30 2045

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

29-10-2002

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 03164922	A	16-07-1991	NONE	
EP 0508563	A	14-10-1992	FI 910419 A	30-07-1992
			DE 69213293 D1	10-10-1996
			DE 69213293 T2	06-03-1997
			EP 0508563 A1	14-10-1992
			JP 6111661 A	22-04-1994
			US 5408060 A	18-04-1995
US 5950809	A	14-09-1999	CN 1196821 A	21-10-1998
			EP 0876673 A1	11-11-1998
			WO 9801876 A1	15-01-1998
			JP 11513180 T	09-11-1999
GB 2304439	A	19-03-1997	KR 144389 B1	01-08-1998
			CN 1147173 A	09-04-1997
			IT M1961615 A1	29-01-1998
US 5404133	A	04-04-1995	JP 2871802 B2	17-03-1999
			JP 4002014 A	07-01-1992
DE 3235752	A	29-03-1984	DE 3235752 A1	29-03-1984

100

100

100